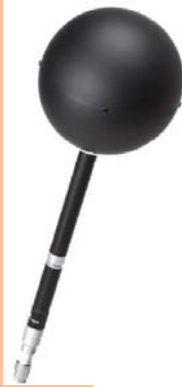




Safety Products

SHB5H20K

- Magnetic B-Field Sensor Head
- Isotropic
- 5Hz–20kHz
- >94dB dynamic range
- Sensitivity >300 nT



Features

The SHB5H20K B-field sensor head is based on a set of three mutually orthogonal coils. The three voltages which correspond to the spatial components are available individually at the sensor head output. An SM-series meter (required for use of this sensor head) calculates the resulting isotropic field strength.

The characteristics of this sensor head comply with the requirements for instruments measuring human exposure to magnetic fields as required by law in both public and professional environments. This sensor head detects magnetic fields from 5 Hz to 20 kHz which typically occur in Industrial environments.

The sensor head is supplied with factory calibration. This model is also available in an M1-version which includes an accredited 17025-compliant calibration.

Typical Applications

- CEI EN 50500: Measurement procedures of magnetic field levels generated by electronic and electrical apparatus in the railway environment with respect to human exposure.

Specifications

Frequency Range: 5 Hz–20 kHz

Type of Frequency Response: Flat

Measurement Range: 300 nT–16mT

Dynamic Range: >94 dB

Sensor Type: Coils

Directivity: Isotropic

Accuracy:

Flatness Frequency Response: ± 0.5 dB (50 Hz–20 kHz)

Linearity: ± 0.5 ($1\mu\text{T}$ –1 mT)

Isotropic Response: ± 0.5 dB

Operation Temperature: 0°C–50°C

Size: 365 x 120 mm, 14.37 x 4.73 in

Weight: 135 g, 4.77 oz

Export Classification: EAR99

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